

# AMERICAN IONOSPHERIC PROPAGATION ASSOCIATION

Art Collins-Pres.

68 Amber St.

Buffalo 20, N.Y.

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TV, FM-DX

Page one

King Schafer V. Pres.

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Jan. 6, 1962

No doubt the pious platitudes of the holiday season seem somewhat rancid now, but nevertheless we management chaps of the AIPA wish all of you a happy and prosperous new year! We indeed consider this gesture quite noble on our parts, as it would be just as easy (and more fun) for us to bang our shoes on the table, and tell you all to go to hell! So don't sit there with that stupid grin on your face, because next year we may do just that!

With the January "edition" quite often its the policy of magazines, clubs, and what have you, to shout about all the great things coming up in the new year. Well being semi-honest here, we are forced to take a slightly altered course. In all probability you will find the AIPA worse this year than last! The bulletin as usual will be a masterpiece of atrocious grammar, general rot, pitiful spelling, nasty editorials like this one, in addition to assorted blobs and blotches. If we were really lucky we may be able too provoke anew a fight or two with Cooper. Then to we can always resurrect Broomall! But be assured of one most important aspect of this organization:—come wind, rain, or mimeograph failure, mediocrity shall, and will prevail!

Und sie? We wonder about the fates, opinions, actions and reactions of our individual members. Do they choke up with emotion when they pluck there mediocre little bulletins out of the mail each month? Or do they curse and wished they put up another buck and joined the NNRC? Maybe they long for the good old days when the bulletin was printed on cheap pink paper, instead of the cheap white paper now in use. Why are so many AIPA'ers being drafted? Thought they were all 4F! Somebody said the postal rates are going up again. Maybe we could raise the dues again, and squeeze a little profit out of em. This "New Frontier" sure is lousy. We may even have to ask England for a loan the way things are going. What ever happened to Dewey? Is he dead? But three bucks is three bucks. The members would love a dues cut. Art could make up the difference from his coffee money. Und sie indeed we have ourselves to think about! Yes, your quite correct Melvin,—THE real motivation behind this exceedingly clever didactic, is to beef-up the moral of the disharmonized AIPA masses. Need we all remember, that our group is the finest this side of the Congo!

Tis a dark night this New Year's Eve. GOD be with you or somebody else will.

73's King

# REVISED CH. 2 TELEVISION RECORDS

CALL	LOCATION	DIST.
*WAIQ	ANDALUSIA, ALA.	1985 RC
KENI	Anchorage, Alaska	2200 RC
KFAR	Anchorage, Alaska	1500 DJo
*KNXT	LOS ANGELES, CAL.	2195 BHo
KTVU	Oakland-San Francisco, Cal.	2288 RN
KTVR	Denver, Colo.	1370 NE
WESH	Daytona Beach, Fla.	2500 DJo
*WTSH	MIAMI, FLA. (BJB & ES)	1200 TIE
*WSB	ATLANTA, GA.	2200 DJo
KONA	Honolulu, T. H.	2700 DJo
KBOI	Boise, Idaho	1450 FD
WBBM	Chicago, Ill.	1900 RC
WMT	Cedar Rapids-Waterloo	1650 DJo
KCKT	Great Bend, Kans.	1375 JC
WBRZ	Baton Rouge, La.	2000 DJo
WLBZ	Bangor, Maine	2700 DJo
*WTWO	Bangor, Maine	2700 DJo
*WMAR	BALTIMORE, MD.	2375 DJo
WGBH	Boston, Mass.	1425 ES
WJBK	Detroit, Mich.	2100 RC
*KTCA	ST. PAUL-MINNEAPOLIS MINN.	1475 DJo
KFEQ	St. Joseph, Mo.	1500 DJo
*KTVI	St. Louis, Mo.	1650 DJo
KOOK	Billings, Mont.	1400 WS
*KVIT	SANTA FE NEW MEXICO	1100 DJo
*KNOP	NORTH PLATTE, NEB.	1200 DJo
WGR	Buffalo, N. Y.	2250 RC
WCBS	New York, N. Y.	2250 DJo
*WKTV	Utica, N.Y.	640 DS
WFMY	Greensboro, N.C.	2400 RC
KDIX	Dickinson, N. D.	1550 JH
WLW-D	Dayton, Ohio	2100 RC
KVOO	Tulsa, Ok.	1600 DJo
KOTI	Klamath Falls, Oreg.	1335 ES
KDKA	Pittsburg, Pa.	2200 DS
*WUSN	Charleston, S. C.	2300 DJo
KPRC	Houston, Texas	1950 DJo
KMID	Midland, Texas	1500 DJo
KUTV	Salt Lake City, Utah	1720 NE
KREM	Spokane, Wash.	1900 KS
WBAY	Green Bay, Wisc.	1950 RC
KTWO	Casper, Wyoming (KS & RN)	1380 TIE
WKAQ	San Juan, Porto Rico	3200 RC
CHCT	Calgary, Alta.	1722 FW
*CHSA	Lloydminster, Alta.	1300 FD
*CHBC	Kelowna, B. C.	325 DJo
CBUT	Vancouver, B. C.	2140 NE
CKCW	Moncton, N. D. (EH & DJo)	2900 TIE
*CFCJ	PORT ARTHUR, ONT.	1550 DJo
CIIC	Sault Ste. Marie Isl. Ont.	2000 DJo
CBFT	Montreal, Que. (ND & RC)	2500 TIE
CHCK	Regina, Sask.	2000 RB
CMAB	Havana, Cuba	2700 DJo
HIT	Cibao, Dom. Rep.	1450 JB
*XEW	Mexico City, D. F.	2400 DJo
*XEWG	Guadel, Mex.	2500 DJo
YVKS	Caracas, Venez. S. A.	4000 RC
*BBC	London, Eng. (Ch. 1)	---- DJo

# NEW CH. 4-13 TV RECORDS

CALL	LOCATION	DIST.	DXER
	CHANNEL 4		
CMUR	Havana, Cuba	1465	FD
KIAC	Port Arthur, T.	1300	BH1-RI
	CHANNEL 5		
WTTG	Wash. D. C.	1145	BHe
KSL	Slt. Lake C. U.	1480	FD
	CHANNEL 8		
KSWB	Elk City, Okl.	105	BHe
	CHANNEL 10		
KROC	Rochester, Minn.	570	BHe
	CHANNEL 11		
KMTV	Colorado Sp. Co.	410	BHe
CHCH	Hamilton, Ont.	450	FD
KBMT	Beaumont, Tex.	515	BHe
	CHANNEL 13		
KHOL	Kearney, Neb.	300	BHe
WLOS	Ashville, N.C.	530	TH
	CHANNEL 9		
CKLW	Windsor, Ont.	BH1 360	RI
NEW RECORD HOLDERS:			
CH. 4-F. Dombrowski, B. Hider-1			
CH. 5-F. Dombrowski, B. Hauser-1			
CH. 8-B. Hauser-1			
CH. 9-B. Hider-1			
CH. 10-B. Hauser-1			
CH. 11-F. Dombrowski, B. Hauser-1			
CH. 13-B. Hauser-2			
(			
RECORD HOLDERS REVISED CH. 2:			
D. Johnson-27			
R. Coover-11			
N. Erint, E. Shorey-3			
B. J. Bingham, R. Nieman, K.			
Schafer, F. Dombrowski-2			
J. Black, R. Boyd, J. Cody,			
N. Doyle, E. Hepp, R. Hilding,			
J. Howarth, B. Nieman, D. Smith			
W. Sjaulding, D. Swanson, F.			
F. Wheeler-1			
NO RECORDS FOR:			
KUSD Vermillion, S. D.			
CFCL Elk Lake Ont.			
XEMT El Paso, Jaarez, Mexico			
XHFA Nogals, Mex.			
W. Sjaulding's Log used			
More Ch. 2-13 & UHF Records			
in Feb. also Standings of Mem.			
Jan. 26 Deadline here in Erie.			

Frank Wheeler, Box 176, R. D.  
Erie, Pa.

\* New since my first listing of Sept. 1960

# AMERICAN IONOSPHERIC PROPAGATION ASSOCIATION

FCG NEWS, Items.

Jan.6 1962

## APPLICATIONS.

Ch 13 Yuma, Ariz. 1.97Kw-985w. Ch 18 Atrisco-Five Pt. N.M. 91Kw.  
Ch 19 Okla City, Okla. 23.2Kw-12.7K. Ch 24 Odessa, Tex. 18.8K-10.2Kw.  
Ch 24 Austin, Tex. 18.8Kw...

## Calls Assigned.....

KALU(TV) Hilo Hawaii (new.)  
KMEX(TV) Los Angeles, Cal. new

KAIL ch 53 Fresno, Cal. started Dec. 18... 30 Kw... 350 foot tower.  
KICU ch 43 Visalia started Dec 23. 270 watts 5246' elevation trms.  
KDAS ch 21 Hanford, Cal started Dec 27. 25Kw. 400' tower.  
KSBY-TV ch 6 San Luis Obispo power increase fr 16Kw to 100Kw Dec 4th.  
Ireland to began TV on Jan 1 1962.

KBMT-TV ch 12 in Beaumont, Tex on since June 18 with 316 Kw. 998' tower.  
BOL ch 3 in Guatemala (TG-BOL) was completely destroyed by fire in Aug.  
KATV-Ch 2 in Portland, Ore. now on .. Dee Johnson, just crazy about it !!!

Many thanks for all the Xmas cards and the thought of kindness in correspondence sent here. I must apologise for not answering each and every one. May I extend my best wishes for a new year and a good DX year as well.

NEW Member... James Long 4 Linden St. Binghamton, N.Y. (Our recent members in Binghamton have been working hard to obtain new members in the club -- We are very thankful..) Welcome James and good DXing.  
Welcome to Paul Auboun 448 E. 46 St. Brooklyn, N.Y.

RE-Newals.. Morris Foote - Middleton, Idaho. (Nice hearing from ya.)  
B.J. Bingham- Festus, Mo... (Was in the hospital for check up... Is OK ! )  
Percy Cox- Visalia, Cal... (Another old timer in the AIPA and still at it)  
James Mitchell- Dahlgren, Va. (James would like info on the TV Meter Signal Meter, as dis-cribed in 1960 DXing Horizons.)  
Bill Pelton-Wataga, Ill. Bill is an old AIPAer, and enjoys it always.)  
Bill Work - Detroit, Mich.. (2nd yr and says he will never leave us.)

Gary Olson of Barrington, Ill has worked very hard to come up with a set of new standards for the AIPA members. We hope you have sent kn ideas and comments..... Gary intends to come up with a list in the Feb. issue... We do hope you will go along with his findings and comply.

We are sorry to hear that Mr. & Mrs Tom Hidley had a death in the family. They went to Jackson, Miss. to attend the funeral of Mrs. Hidley's brother.

Word here from Charles Wood is that he's in the market for a new and powerful antenna, Yes, Charles the Winegard Powertron as you mentioned is about the best. This goes for any other member -- Look into the Winegard Powertron models before you buy any. Ed Hepp has recently purchased a SP-55X Winegard and can't wait to put it up. By the way-- Ed Hepp has his own Radio show on KOIL 1290 Kc. on Sunday evenings starting at 12 midnite and on all nite (Monday AM). try for ED has the 1290 Kc band is pretty clear at that time. (CST)

The AIPA elections are coming up next APRIL and I do hope you will find and elect a new President.... I've had it three years now and I believe it's time a new head takes over... I'm sure a new broom sweeps clean... new blood needed etc... Please.

Art Collins.

++++Richard Italiano, Binghamton, New York---Nov.14 tropes CKLW-9, WBEN-4, WGR-2, Nov.15 WGAL-8, WBEN-4, WGR-2, WKBW-7.  
++++John C. Dyckman, Canfield, Ohio---Aug.29 tropes WXTV-45, Aug.30 WKST-33, Sept.22 WKST-33, Oct.21 WKBN-27, Nov.16 WSTV-9,.  
++++Frank Wheeler, Erie, Pa.---Oct.27 tropes northern lights ch.2-6, Oct.28 WNEM-5, WJIM-6, WTOL-11, Oct.30 WNEM-5, Oct.31 WTOL-11, WSPD-13, Nov.2 WNEM-5, Nov.5 WNEM-5, Nov.11 WJIM-6, Nov.14 WTOL-11, Nov.15 WILX-10, Nov.22 WTOL-11, Nov.25 WJIM-6, Total stations 159.  
++++Gary Olson, Barrington, Illinois---Nov.24 tropes WMTV-15, WMBD-31, WLWI-13, WSBT-22, WTVF-17, WKOW-27, WTVH-19, WWTW-13, One new total now 209.  
++++William Hider, Binghamton, New York---May 27 Es. WABG-6, KMTV-3, May 28 KFEQ-2, KTIV-4, June 2 KYTV-3, KARD-3, June 4 CBHT-3, CJON-6, CJOX-6, CJCB-4, CFXV-4, WOI-5, KPLO-6, KOTV-6, June 8 KALB-5, June 10 WUSN-2, WLBT-3, CFCJ-2, WBAY-2, KRLD-4, CBOT-4, KGLO-3, WMT-2, June 13 WESH-2, WJXT-4, June 15 WEAR-3, June 17 WSAV-3, KSYD-6, KOCO-5, KFSA-5, KNOP-2, June 19 KPRC-2, KBTX-3, KDAL-3, KMOX-4, KTCA-2, KWTX-10 tropes (1375 miles) June 20 ES. WTHS-2, WTVJ-4, June 27 KCKT-2, July 2 KTVY-4, KMCT-5, KTVI-2, July 28 WSVA-3, KFVY-5, Aug.6 KSD-5, Aug.12 KPAC-4, KTAL-6, Aug.13 WEDU-3, WBRZ-2, KFEQ-2, Aug.15 WCBI-4, WRBL-3, Aug.20 WAIQ-2, Aug.21 KARD-3, Aug.25 WWL-4, WREC-3, WSIL-3, KARK-4, Aug.28 KVOO-2, Sept.1 WKY-4, Tropes Oct.9 WNEW-5, WKBW-7, Nov.14 CKLW-9, Nov.15 WGAL-8, WKBW-7, WFIL-6, Nov.17 WGAL-8, Nov.18 WSYR-3, WKBW-7, WHEN-8, .16 new total 64.  
++++Ghishain Girard, Arvida, Quebec, Canada---Dec.16 Es. WSB-2, WECT-6, WCIA-3, KTIV-2, Dec.10 CKRT-7 NEW station on testing about 85 miles from here. Dec.17 tropes CHLT-7, CHSK-6, .2 new total 96  
++++DAVID Nieman, Buffalo, New York---Aug.4 Es. KTBS-3, KARD-3, Aug.6 WREC-3, KYTV-3, WLBT-3, KTVO-3, Aug.18 tropes WTOM-4, .2 new total stations 247.

RICHARD NIEMAN , 99 IMSON STREET , BUFFALO 10 , NEW YORK

January, 1962

Dennis Smith heard a bit of DX from Wasco, California. Denny DX's with a Halcrafters SX43 and yagi antenna. Dec 18: tropo, L.A. stations better than usual, and KGGK 94.3 Garden Grove 145 mi, KFOK-FM 102.3 Long Beach 140 mi, and unID MS burst at 94.3 at 8:14 a.m. PST. Denny's total remains at 93.

Stan Harper of Lisle, New York dropped a short letter to say that he has 389 FM stations thus far. I'll be expecting a report for the last few months, Stan.

## FM NEWS

KCIB & KXQR, two Fresno, California stations are now testing, and should be on soon. Multiplex news from Dennis Smith: KMOZ 103.3 Santa Barbara joins the list of California MX stations, having started 24-hour MX-stereo on Oct 30. They are the state's 5th MX station (the other 4 are KMLA Los Angeles, KPMU Glendale, KPEN San Francisco, & KONG-FM Visalia.)

## 24 HOUR LIST

Here is a short list of all nighter FM stations submitted by Dennis Smith and Al Germond

KFAC-FM 92.3 Los Angeles 59kw.	KUTE 101.9 Glendale 82 kw.
KPOL-FM 93.9 Los Angeles 38kw	KMOZ 103.3 Santa Barbara 105 kw
KRHM 94.7 Los Angeles 58 kw	KITT 105.3 San Diego 56 kw
KRKD-FM 96.3 Los Angeles 54 kw.	KQXR 101.5 Bakersfield 14.5 kw.
KMLA 100.3 Los Angeles 60 kw	KARM-FM 101.9 Fresno 7.4 kw
KGLA 103.5 Los Angeles 12.5 kw	KEAR 97.3 San Francisco 82 kw.

## NEW YORK CITY

WPAT-FM 93.1 4.2 kw	WNYC-FM 93.9 18.0 kw
KNEW-FM 102.7 2.3 kw	WTFM 103.5 20.0 kw
KABC-FM 95.5 1.5 kw	(silent Monday, Wednesday, Saturday & Sunday mornings)
WNBC-FM 97.1 1.1 kw	(silent Monday morning)
WOR-FM 98.7 1.7 kw	(silent Monday morning)
WCBS-FM 101.1 1.5 kw	(silent Monday morning)
WNCN 104.3 15.0 kw	

## BOSTON

WHDH-FM 94.5 3.3 kw	WCOP-FM 100.7 20.0 kw
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## PHILADELPHIA

WIBC-FM 94.1 20.0 kw	WCAU-FM 98.1 20.0 kw
WIP-FM 93.5 20.0 kw	(irregular all night sked.)
WHAT-FM 96.5 20.0 kw	(except Sunday and Monday morning)
WPEN-FM 102.9 20.0 kw	(irregular all night sked.)

## WASHINGTON, D.C.

WTOP-FM 96.3 20.0 kw	WWDC-FM 101.1 20.0 kw
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## OTHERS...

WDEW-FM 94.9 118.0 kw	Barbarton, Ohio (Akron)
WFBM-FM 94.7 52.0 kw	Indianapolis, Indiana
WRYT-FM 96.1 31.0	Pittsburgh, Penna.
WWSW-FM 94.7 50.0	Pittsburgh, Penna.
WRAL-FM 101.5 250.0	Raleigh, North Carolina
KITT 105.3 56.0	San Diego, California

Many thanks to those who sent the beautiful Christmas cards. I hope that some lucky dxer found a new Powertron antenna and/or a new Zenith tv under the tree. I have a 62 Zenith Lowboy tv now and I am quite pleased with it. The three IF tubes are of the 6eh7/6ej7 type by Ampex. Gm is about 15,000 micromhos. The ultimate receiver described a year ago in TVH magazine embraced these same tubes. I logged 170 miles tropo on my folks Zenith(62) while I visited them in Milwaukee over the Holidays. I had a dipole made out of 300 ohm line for an antenna. Wbbm 2,100 miles near perfect.

73's  
Dave



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Here is a form letter for writing to Spanish speaking stations as provided by AIPAer Celerino Castillo, Jr. in Pharr, Texas, near Weslaco and Harlingen. I needed his help to translate a letter from WKAQ-TV I received recently:

Muy Senor Mio:

Tengo el gusto de comunicarle a Ud. que yo podria sintonizar sus emisiones de Television, para lo cual me permito darle a Ud. los siguientes detalles del programma.

( Insert your log here.)

Suplico se sirva examinar mi DX recepcion contra sus Diarios Oficiales y verifique si mi informacion es correcta.

\*de Siendo tan grande el interes que tengo en sus emisiones de television me alegraria sobremanera, si tuviera la bondad\*enviarme un programa completo de todas sus transmisiones con ~~la~~ el debido itinerario, es decir el dia, la hora y el canal y frecuencia en que sintonizar. Al mismo tiempo le estaria sumamente agradecido si me enviara su tarjeta afirmativa QSL. Yo por lo tanto, estoy en la mejor disposicion de darle toda la informacion necesaria si es que Ud. los desea.

En espera de su respuesta, aprovecho la oportunidad para ofrecerme a sus ordenes.

Atto. Y. S.S.

(signature)

I made a few typing mistakes but I'm sure the letter will be understandable to anyone who understands Spanish. A somewhat similar form letter is printed in the old issue of "How to Listen to the World" intended for radio DXers. This form is for TV-DXers.

Besides my definite reception of CMAB-2 on june 9th, I have an unidentified logging of june 14th from the same general direction. So I wrote to CMAB, CMJA, HIT and WKAQ about the logging using a Spanish form letter. WKAQ is the only one that has answered so far in the month since writing the letters. WKAQ answered with a "thank you" type letter and a week's program schedule. I've written back trying to get a more definite answer. Mail may be slow now because of the holidays but I hope for an eventual answer from all 4 stations. WKAQ is 2050 miles from here.

I recently found a clipping from a Dec. 31, 1958 newspaper which states simply that the police in Campbell River, B.C. were picking up South Carolina police calls on their shortwave radios, loud and clear. The clipping reminded me of my European IDX that winter on 45 and 48mc. While IDX news is sparse the next few months, I'd like to review the IDX received during the last sunspot cycle. Some newer members have expressed an interest in IDXing the past few months and perhaps the older DXers could send me their logs for that period. My AIPA bulletins go back as far as early 1958, so if your IDX has appeared in the bulletin since then, I have it in my bulletins and you need not bother sending it to me. I have some DX listings from early '58 IDX columns but not all. I have no IDX loggings at all from late 1957 or any earlier IDX seasons. I'd appreciate such a list if you can help me since there were a number of people with converters in those days and a lot of IDX was seen and heard I'm sure.

Two recent newspaper articles here have a bearing on IDX. Nigeria is sending a team of observers to Egypt to study Nasser's TV network. Nigeria has 3 stations in operation, the nucleus of a national network.

The other item says NASA official thinks Americans will be able to watch the 1964 Tokyo Olympics on live TV relayed by earth satellites. I've heard this before but then it was definite, now it isn't. I heard the artificial needles sent up weren't a complete success.

I just got a letter from Dennis Smith with a few timely notes. Being away at school he hasn't had much time for IDXing, but on or about Dec. 2nd he had very strong F2 skip on the 35mc paging frequency from Florida, Georgia and New Orleans from 1000 to 1130, PST. SWL's and IDX fans may want to try for these stations even if there is no TV-IDX. And if foreign TV should come in, you're less likely to miss it if you are already at the dials listening for 2000 mile paging stations. There are a few FM stations in Latin America in this band, also, as I have mentioned before.

Dennis also recalled reading in "Wireless World" about one British citizen who is in favor of adoption of the 625 line system because of the annoying 10,125 cps squeal of the horizontal oscillator. Even in American receivers with their 15,750 cps squeal the noise can be bothersome as it is to Dennis and me. Aural frequency response decreases with age, but at ages up to 25-30 most people can still hear this high. One of the favorite gripes of our "Audio Systems" instructor at the Milwaukee School of Engineering was the people who nothing about the ear's response buying 15-20kc hi-fi systems when they couldn't hear beyond 8-10kc anyhow. I remember a time earlier this year when the 15kc squeal in my TV seemed to be more intense than usual and it was driving me batty. I had to stop watching TV for awhile to recover from the pain.

Dennis also mentioned the article "Looking in on London" which appeared in RADIO\*ELECTRONICS for Sept.1958, which includes 4 very good pictures of London and conversion of receivers. This article and the one by Gordon Simkin article in the 1959 "How to Listen to the World" are the 2 best I have ever seen on the subject of IDX. there are a few others which directly or indirectly have a bearing on IDXing and I list here the ones I have. If you know of any others or if I skip any, let me know. If I don't already have the article I'd like to buy or borrow it. I have a number of clippings from European magazines and SWL club bulletins which I will lend out. If you want to see the any of the following articles from American magazines please send postage because I don't want to cut the articles out. I keep my magazines intact.

1. "Sunspots Mar-TV Reception" Aug.1957 Radio & TV News.
2. constructing a tuner for 50-215mc, (2 tubes) Nov.1957 R. & TVNews.
3. airborne TV relay, France-Algeria Jan.1959 Radio & TV news.
4. "TV and Sunspots" Aug.1957 Radio-Electronics.
5. "FM-TV DX column" Nov.1958 Radio-Electronics, with photos of BBC taken by Stan Penc, Utica, N.Y.

I almost forgot about an article in the August, 1959 issue of "Electronics Illustrated" by Tom Hidley. Since the magazine was rather new it was hard to get in some places, impossible in my area. Billy Draeb came to visit me about that time and brought his copy along, but I had to send to the publisher to get a copy of my own. The article has 3 of Heinar Tammett's photos of BBC, Tallinn and Finland. No technical information or wave propagation information is included but the photos are interesting.

"DXing Horizons" also has carried a number of foreign photos and sunspot information.

The Spring, 1961 edition of "Radio-TV Experimenter" had a "do-it-yourself" VHF radio but the \$20 cost isn't worth it. So stick with the 2 articles on construction mentioned earlier and you can't go wrong.

DX has been fairly nil in the way of both tropo and skip. Since the excitement last summer, nothing real big has really popped. With the new year upon us, here's hoping for 12 months of red hot TV action.

Taking up where we left off last month, we must return to the subject of The Proper Procedure in Counting Stations in the DXers log. If you remember, last time an introduction to the problem was presented. At this time we shall begin to try to resolve this perplexing problem. If we do not find space sufficient to list the new standards, it will be done next month.

First of all, a great note of thanks should be passed along to fellow members Dennis Smith, Ferdie Dombrowski, B.J. Bingham, Bill Hider, Bill Hauser, and the other DXers who have taken the time and trouble to write to me personally concerning this column. As I have said before, it is your ideas and comments which make this column go. It is you, the DXer, who guides the course of this column.

Before making our finalized decision on official standards, I believe that some of the comments of AIPA members on the controversial parts of our standards should be examined. Most of the comments received indicate a willingness to co-operate on the part of most DXers. However, we do come into severe conflict on some points.

(1) If a station changes channels, should it be counted as one or two stations? Bedford Brown feels that this type of change should only be counted twice when the change is from high band to low band, low band to UHF, etc. Ferdie Dombrowski doesn't like the idea of counting a station twice but does it because most DXers seem to do it. B.J. Bingham expresses the idea that only a UHF to VHF shift should be counted as two stations. Dennis Smith feels that a change in channels does constitute two stations counted. As you can see, this is one of the most ticklish of the problems to be handled by our new standards.

(2) Should a share-time station be counted as two stations? This can be a problem since some share time operations use separate equipment from different locations. Bill Hauser believes that share-timers should not be counted as two stations unless different equipment is being utilized by the different stations. Several other DXers have counted share-timers for reasons of their own such as WLSB-WILX where one is an educational station running on a short or limited schedule.

(3) Does change in ownership constitute a new station? Some DXers have expressed the opinion that a station going off and returning to the air again under new ownership is a new station. An interesting example of this is our IDX editor who counted WXIX as two stations on ch. 18. CBS affiliated WXIX ch. 18 went off the air and then returned to the air as independent WXIX TV under new ownership. As a real twist, I myself counted WXIX twice; once as ch. 19 and again as ch. 18 after they shifted channels.

The above points illustrate just 3 of the problems we are trying to resolve with the new standards. Some DXers have stated that they are not sure that the standards will accomplish their goal. However, I believe they will succeed if the DXers co-operate when listing their totals publicly and in the bulletin. In my own case, I plan to keep an official total according to the standards and an unofficial total which counts stations according to my personal rules. By the official method you have an accurate estimate of who has really logged the most, and by the unofficial method you can achieve your own personal satisfaction in that you have picked up so many stations according to YOUR standards.

Next month we shall list the complete standards. If correction is necessary, it will be done through this column in the coming months.

In March we shall begin the "delinquent signers" list once again. This comes from the suggestion of Bill Hauser who along with several other DXers would like to know what stations do not verify, what stations do not give adequate confirmation of DX reports, and what stations will check the DXers reports.

BEST OF DX in '62/Gary



\*\*\*\*\*  
 \* A I P A # W E S T E R N D X # Dennis Smith \*  
 \* 6494 N. Blackstone Ave. \*  
 \* January 1962 # HAPPY NEW YEAR # Fresno 26, California \*  
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Welcome to a new year. So far, there has been no winter sporadic-E, but some of the DXers have picked up a bit of tropo here and there.

B.J. Bingham in Festus, Missouri reports that Bill Eckberg, who is in the service in the same state, visited him a few weeks ago and had a very enjoyable time. B. J. saw the Es opening on Oct. 27 also, but he couldn't identify many because of his locals. He saw some tropo, too.. Oct. 22: tropo, WLW-I-13 WFBM-6 WISH-8 Ind., WJRT-12(520 mi) WILX-10(510) WWTW-13(600) WXYZ-7(500) WOOD-8 Mich., WSPD-13 WTOL-11 WHIO-7 Ohio, WISN 12 Wisc., WGN-9 WBKB-7 WBBM-2 WREX-13 Ill., WJHL-11(500) WTVC-9 WSIX-8 WLAC-5 WMCT-5 WHBQ-13 WDXI-7 Tenn., WHAS-11 Ky., KFEQ-2 Mo. Oct. 27: Es, KID-3 Idaho. Nov. 4: tropo, WFBM-6 WISH-8 WLW-I-13 Ind., WKRC-12 WCPD-9 WLW-T-5 WJW-8(550) KYW-3(550) WSTV-9(600) WHIO-7 Ohio, WSIX-8 WDXI-7 WHBQ 13 Tenn., WBBM-2 WBKB-7 WGN-9, WSIV-8(new--app. 70 mi) Carbondale, Illinois. One new station raises his total to 279.

Bill Hauser of Enid, Oklahoma has some tropo to report--he mentions a station that is fairly new on the air (started June 18), KBMT-TV ch. 12 Beaumont, Texas with xmtr at Sabine using 316 kw. All tropo... Nov. 25: KTBC-7 KPAR-12 KRBC-9 KHOU-11(505 mi) KWTX-10 KBMT-12(515) KTRK-13 Tex., KPLC-7 La. Nov. 26: KRBC-9 Tex., KTBS-3 KSLA-12 La., KTHV-11 Ark. Dec. 1: KETV-7 Neb. Dec. 2: KRNT-8 Iowa, WGEM-10 Ill., WIBW-13 Kans., KYTV-3 Mo., KOSA-7 Tex., KSWB-8 N.Mex. Dec. 3-18: No DX except MS observed. Bill's total remains 217.

A welcome letter was received from Ed Hepp, now of 5640 1/2 S. 23rd St. Omaha, Nebraska. He works for KOIL, which is AM (5000 watts 24 hours a day on 1290 kc) and FM (simulcast 8 AM - 2 PM on 96.1 Mc). He does the :55 news, :20 sports, and :30 headlines four nights a week, and his own DJ shows, one Saturday night and the other Monday morning from midnight to 5:30 AM--most stations are off at this time; listen for Ed on KOIL. Ed hopes to get a Winegard Powertron antenna soon.

Elwood Walter of Seattle, Washington writes that he will be moving to Utah, to work at a Boeing Co. plant at Ogden. The big change comes January 8--best of luck with the job and DX in the new location, Elwood.

In this area of California, our three new UHF independents have begun broadcasting. KAIL 53 Fresno started Dec. 18 with 30 kw and a 350-foot tower a few miles north-east of the city. KICU 43 Visalia started Dec. 23 with 270 kw at a 5246-foot location bordering Sequoia National Park. KDAS 21 Hanford is rushing right along and starts programming on Dec. 27--even before a live camera is ready--it has 25 kw on a 400-foot tower north of Hanford at the Kings River. At home in Wasco, KICU is a snowfree local at 80 miles because of its high mountain xmtr; the other two are in the valley--KDAS at 65 miles is fair and KAIL at 95 miles is very poor most of the time. My total is 109 with 2 new (chs 21 & 43).

If some of you have not seen KSBY-6 San Luis Obispo, California by skip yet, you may before long--its ERP has been 100 kw since December 4. Needless to say, it is much stronger here than it was, but does not seem to be quite the "local" signal I thought it would be....

Many thanks to everyone for all the wonderful Christmas cards and gifts. This was indeed a very memorable holiday.

Best of DX to all in 1962

Dennis

(continued) THE ATMOSPHERE(continued)THE IONOSPHERE

The ionosphere starts where ionization effects begin to appear in the stratosphere at about 60 to 80 km. and higher. Ionization reveals itself through the reflection of radio waves and in aurora displays. In order for all of this to happen, there must exist in the stratosphere a sufficient number of free electrons. (A free electron is one that is separated from the outer shell of its atom by bombardment with either high-velocity particles or ultraviolet photons. It is important to remember that very low pressure of .35 millibar or lower is necessary to sustain ionization.

RADIO REFLECTING LAYERS OF THE IONOSPHERE

(Of the following eight layers of reflectivity in the ionosphere, the television dxer can be concerned with only two of these, the Sporadic-E-layer and the F2-layer.)

THE D-LAYER

The D-layer is the lowest reflecting layer in the ionosphere; it averages about 90 km. in height. ~~NNN~~ Noone really knows the cause of the scattered activity of this layer, but a good guess seems to be ionization of molecular oxygen by intense ultraviolet radiation. ~~In fact D-layer~~ activity is so closely related to solar radiation that it always disappears as soon as the sun sets.

THE NORMAL E-LAYER

The normal E-layer, occurring at heights ranging from 90 to 130 km., is probably caused by ultraviolet ~~photons~~ photons from the sun bombarding oxygen and nitrogen molecules. This layer, which strongly reflects medium and high frequency radio waves begins to weaken as soon as the sun sets in the evening and it becomes thinner and thinner during the night.

\*\*\*\*\*SPORADIC-E\* LAYER\*\*\*\*\* (VHF TRANSMISSION AT 110 KM.)

Sporadic\*E layer, E-SKIP! Ah! Here is the wonderful villain that is one of the greatest mysteries in radio transmission today. Why does it vary with the season? Why is it so erratic and unpredictable? What is the explanation for its various diurnal peaks and lulls? What causes it? In answer to the last question-some, as we well know, is caused by meteors (or high-flying planes such as flying saucers-Hi!); some may be caused, as also well we know, by the same mechanism that produces auroras. As ~~to~~ to the main cause and the remainder of the questions, your guess is as good as anyone's.

Studies of television E-skip reports by O.P. Ferrell reveal that, as he puts it, "At odd times and under special circumstances, sporadic-E conditions produce clouds whose rapid motion indicates that winds of high velocity, around 300 mph, occur in the sporadic-E layer. We shall be returning to this important subject in a couple of months.

The F2-LAYER

The F2-layer, appearing during daylight hours at about 150 km., is of little concern with television enthusiasts. Probably caused by photoionization of oxygen atoms, the E2-layer apparently does not affect television waves.

The F1-LAYER

The F1-layer, which plays an important roll in reflecting medium and high frequency radio waves, is probably created by the bombardment of oxygen atoms and nitrogen molecules by ultraviolet photons from the sun. The F1-layer is active only during the broad daylight, and at night it merges with the F2-layer, except for intervals of extreme sunspot disturbances. NEXT MONTH-F2, G-layer, and aurora borealis!!!!  
Let's hope that 1962 is a peak dx year, HAPPY NEW YEAR and BST DX, 73's, Bedford.